

IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/687,268

DATE: 10/01/2004 TIME: 12:03:49

Input Set : A:\SEQLIST1.txt

Output Set: N:\CRF4\10012004\J687268.raw

4 <110> APPLICANT: Agarwal, Pankaj 5 Lee, Judithann M. Smith, Randall F. 6 7 White, John R. 10 <120> TITLE OF INVENTION: NOVEL COMPOUNDS THE PARTY OF THE P 13 <130> FILE REFERENCE: GP50029-1 15 <140> CURRENT APPLICATION NUMBER: 10/687,268 16 <141> CURRENT FILING DATE: 2003-10-15 18 <150> PRIOR APPLICATION NUMBER: 60/213,161 19 <151> PRIOR FILING DATE: 2000-06-22 21 <150> PRIOR APPLICATION NUMBER: 60/213,156 22 <151> PRIOR FILING DATE: 2000-06-22 he formation to the state of th 24 <150> PRIOR APPLICATION NUMBER: PCT/US01/19929 25 <151> PRIOR FILING DATE: 2001-06-22 27 <150> PRIOR APPLICATION NUMBER: 10/312,088 28 <151> PRIOR FILING DATE: 2002-12-20 30 <160> NUMBER OF SEQ ID NOS: 46 32 <170> SOFTWARE: FastSEQ for Windows Version 4.0 34 <210> SEQ ID NO: 1 35 <211> LENGTH: 1383 36 <212> TYPE: DNA 37 <213> ORGANISM: Homo sapiens 39 <400> SEQUENCE: 1 40 atgcttggaa tttggattgt tgcattcttg ttctttggca catcaagagg aaaagaagtt 60 41 tgctatgaaa ggttagggtg tttcaaagat ggtttaccat ggaccaggac tttctcaaca 120 42 gagttggtag gtttaccctg gtctccagag aagataaaca ctcgtttcct gctctacact 180 43 atacacaatc ccaatgccta tcaggagatc agtgcggtta attcttcaac tatccaagcc 240 44 tcatattttg gaacagacaa gatcacccgt atcaacatag ctggatggaa aacagatggc 300 45 aaatggcaga gagacatgtg caatgtgttg ctacagctgg aagatataaa ttgcattaat 360 46 ttagattgga tcaacggttc acgggaatac atccatgctg taaacaatct ccgtgttgtt 420 47 ggtgctgagg tggcttattt tattgatgtt ctcatgaaaa aatttgaata ttccccttct 480 48 aaagtgcact tgattggcca cagcttggga gcacacctgg ctggggaagc tgggtcaagg 540 49 ataccaggcc ttggaagaat aactgggttg gacccagctg ggccattttt ccacaacact 600 50 ccaaaggaag tcaggctaga cccctcggat gccaactttg ttgacgttat tcatacaaat 660 51 gcagctcgca tcctctttga gcttggtgtt ggaaccattg atgcttgtgg tcatcttgac 720 52 ttttacccaa atggagggaa gcacatgcca ggatgtgaag acttaattac acctttactg 780 53 aaatttaact tcaatgctta caaaaaagaa atggcttcct tctttgactg taaccatgcc 840 54 cgaagttatc aattttatgc tgaaagcatt cttaatcctg atgcatttat tgcttatcct 900 55 tgtagatcct acacatcttt taaagcaggt acatgtgtag gatgtgcaga tttgttacat 960 56 aggatagata agataggaag tcatacttcc catgtgtttt taaccctttc tctccctttc 1020 57 cttcttgttt ccttatatct aggttggagg cacaaattgt ctgttaaact cagtggaagc 1080 58 gaagtcactc aaggaactgt ctttcttcgt gtaggcgggg cagttaggaa aactggggag 1140 59 tttgccattg tcagtggaaa acttgagcca ggcatgactt acacaaaatt aatcgatgca 1200

RAW SEQUENCE LISTING DATE: 10/01/2004
PATENT APPLICATION: US/10/687,268 TIME: 12:03:49

Input Set : A:\SEQLIST1.txt

```
60 gatgttaacg ttggaaacat tacaagtgtt cagttcatct ggaaaaaaca tttgtttgaa 1260
61 gatteteaga ataagttggg ageagaaatg gtgataaata catetgggaa atatggatat 1320
62 aaatctacct tctgtagcca agacattatg ggacctaata ttctccagaa cctgaaacca 1380
63 tạc
65 <210> SEQ ID NO: 2
66 <211> LENGTH: 927
67 <212> TYPE: DNA
68 <213> ORGANISM: Homo sapiens
70 <400> SEQUENCE: 2
71 atgccgttcc tgcagctgaa agggagagca acacctccat cctggagaca cgatagccgc 60
72 teaettgtte acetgetgga eggeaaggag ggegtgtggg acaecaeggg etatgeetta 120
73 gggagcagag aatcattgaa teetgacatg gggattggtg acceacatgg acacagcact 180
74 gtccacacca gggaagcagg cactgcctgt ccattacagc ttctaggtgc tcgggaggcc 240
75 agtotgotgg cotgtgggat otgocaggoo totggcoaaa tottcatcac coaaaccotg 300
76 gggatcaagg gatatcggac tgtcgtggcc ctggataagg tccctgagga tgttcaggaa 360
77 tacagetggt actggggtge aaacgacage geaggaaaca tgattateag ceacaaaceg 420
78 cccagtgccc agcagcctgg gcccatgtac actggcaggg agagagtgaa cagagaaggc 480
79 agcctqttqa tcagqccqac tqcattaaat gacacqqqaa actacactqt tcqqqtqqtt 540
80 gcaggcaatg agacccaaag agcaaccggc tggctggagg ttctagatgg gcccgactat 600
81 gtgctgctga ggagcaatcc tgatgatttc aacggcattg tgacagctga gatcggctcc 660
82 caagtggaaa tggagtgtat ctgctattcc ttcctggatc tcaagtacca ctggatccac 720
83 aatggctccc tcctgaactt ctcagatgca aagatgaacc tctcgagtct tgcctgggag 780
84 cagatgggcc gttaccgatg cactgtggag aaccccgtga cacagctgat catgtacatg 840
85 gacgtcagga tccaggccc ccatgagtgc agcagctccc ctccaggctc atgctttgca 900
86 catctccctg cctccatgcc ctgctag
                                                                     927
88 <210> SEQ ID NO: 3
89 <211> LENGTH: 1374
90 <212> TYPE: DNA
91 <213> ORGANISM: Homo sapiens
93 <400> SEQUENCE: 3
94 atggacettt ccagacecag atggagectg tggaggaggg tetteeteat ggecagtetg 60
95 ctggcctgtg ggatctgcca ggcctctggc caaatcttca tcacccaaac cctggggatc 120
96 aagggatate ggactgtegt ggeeetggat aaggteeetg aggatgttea ggaatacage 180
97 tggtactggg gtgcaaacga cagcgcagga aacatgatta tcagccacaa accgcccagt 240
98 geccageage etgggeceat gtacaetgge agggagagag tgaacagaga aggcageetg 300
99 ttgatcaggc cgactgcatt aaatgacacg ggaaactaca ctgttcgggt ggttgcaggc 360
100 aatgagaccc aaagagcaac cggctggctg gaggttctag agttgggaag caatctgggc 420
101 atctccgtca atgccagctc cctggtggag aacatggatt ctgtggctgc tgactgcctc 480
102 acaaatgtca ccaacatcac gtggtatgtg aatgatgtgc ctacctctag tagtgaccgg 540
103 atgacaattt ccccagacgg caagaccctc gtcatcctca gggtcagccg ctatgacaga 600
104 acaattcagt gcatgataga gagtttccca gagatctttc agagaagtga acgcatctct 660
105 ctgactgtgg cctatgggcc cgactatgtg ctgctgagga gcaatcctga tgatttcaac 720
106 qqcattqtqa caqctqaqat cqqctcccaa qtqqaaatqq agtgtatctq ctattccttc 780
107 ctggatetea agtaceactg gatecaeat ggeteeetee tgaaettete agatgeaaag 840
108 atgaacetet egagtettge etgggageag atgggeegtt acegatgeac tgtggagaac 900
109 cccgtgacac agetgateat gtacatggac gteaggatec aggecececa tgagtgteet 960
110 cttccttcag ggatcttacc tgttgtccac agagatttct ccatctcagg atccatggtg 1020
111 atgttcctca tcatgctgac agtgctgggt ggcgtttaca tctgtggagt cctgatccat 1080
112 getetgatea accaetaete aateaggtge eeteattget etgggacaag ggtgggatgt 1140
```

RAW SEQUENCE LISTING DATE: 10/01/2004
PATENT APPLICATION: US/10/687.268 TIME: 12:03:49

Input Set : A:\SEQLIST1.txt

```
113 tqqctqqqqq ctqqqactca qgagccagcc ctccctccag aggggaagca gagccagaag 1200
114 qqqaqqqata agccaggaac taggttgtca gggatcatct ggggcagaca gatcagcccc 1260
115 caggacctga agctgatggg agcaagagag ggtttagagt cggccatggt tctaaatagc 1320
116 tgtggggttt cttctagcaa cttcccttct ctttgtgttt ataagggata ttaa
118 <210> SEQ ID NO: 4
119 <211> LENGTH: 2115
120 <212> TYPE: DNA
121 <213> ORGANISM: Homo sapiens
123 <400> SEQUENCE: 4
124 atgetecatg atgggttgac tgcacetgat gggtgtggaa tetacageet gaeegggegg 60
125 gaagteetga egeeetteee aggattggge aetgeggeag eeeeggeaca gggeggggee 120
126 cacctgaage agtgtgacet getgaagetg teeeggegge agaageaget etgeeggagg 180
127 gaqcccqqcc tqqctgaqac cctgaqggat gctgcgcacc tcggcctgct tgagtgccag 240
128 tttcagttcc ggcatgagcg ctggaactgt agcctggagg gcaggatggg cctgctcaag 300
129 agaggettea aagagacage ttteetgtae geggtgteet etgeegeeet cacceacace 360
130 etgqceeggg cetgcagege tgggegcatg gagegetgea cetgtgatga eteteegggg 420
131 ctggagagec ggeaggeetg geagtgggge gtgtgeggtg acaaceteaa gtacageace 480
132 aagtttetga geaactteet ggggteeaag agaggaaaca aggaeetgeg ggeaegggea 540
133 gacgcccaca atacccacgt gggcatcaag gctgtgaaga gtggcctcag gaccacgtgt 600
134 aagtgccatg gcgtatcagg ctcctgtgcc gtgcgcacct gctggaagca gctctccccg 660
135 ttccgtgaga cgggccaggt gctgaaactg cgctatgact cggctgtcaa ggtgtccagt 720
136 gccaccaatg aggccttggg ccgcctagag ctgtgggccc ctgccaggca gggcagcctc 780
137 accaaaggcc tggccccaag gtctggggac ctggtgtaca tggaggactc acccagcttc 840
138 tgccggccca gcaagtactc acctggcaca gcaggtaggg tgtgctcccg ggaggccagc 900
139 tgcagcagcc tgtgctgcgg gcggggctat gacacccaga gccgcctggt ggccttctcc 960
140 tgccactgcc aggtgcagtg gtgctgctac gtggagtgcc agcaatgtgt gcaggaggag 1020
141 cttgtgtaca cctgcaagca ctagatgggc cctgtggggt tcccgaggca gtgccaggga 1080
142 gccttctttg agagcagccc tgggcagacc agggcccgcc tgaccgggcg ggaagtcctg 1140
143 acgccettce caggattggg caetgeggea geeceggeae agggegggge ceaectgaag 1200
144 cagtgtgacc tgctgaagct gtcccggcgg cagaagcagc tctgccggag ggagcccggc 1260
145 ctggctgaga ccctgaggga tgctgcgcac ctcggcctgc ttgagtgcca gtttcagttc 1320
146 eggeatgage getggaactg tageetggag ggeaggatgg geetgeteaa gagaggette 1380
147 aaagagacag ettteetgta egeggtgtee tetgeegeee teacceacae eetggeeegg 1440
148 gcctgcagcg ctgggcgcat ggagcgctgc acctgtgatg actctccggg gctggagagc 1500
149 cggcaggcct ggcagtgggg cgtgtgcggt gacaacctca agtacagcac caagtttctg 1560
150 agcaacttcc tggggtccaa gagaggaaac aaggacctgc gggcacgggc agacgcccac 1620
151 aatacccacg tgggcatcaa ggctgtgaag agtggcctca ggaccacgtg taagtgccat 1680
152 ggcqtatcag gctcctgtgc cgtgcgcacc tgctggaagc agctctcccc gttccgtgag 1740
153 acgggccagg tgctgaaact gcgctatgac tcggctgtca aggtgtccag tgccaccaat 1800
154 gaggcettgg geegeetaga getgtgggee eetgeeagge agggeageet caccaaagge 1860
155 ctggcccaa ggtctgggga cctggtgtac atggaggact cacccagctt ctgccggccc 1920
156 agcaagtact cacctggcac agcaggtagg gtgtgctccc gggaggccag ctgcagcagc 1980
157 ctgtgctgcg ggcggggcta tgacacccag agccgcctgg tggccttctc ctgccactgc 2040
158 caggtgcagt ggtgctgcta cgtggagtgc cagcaatgtg tgcaggagga gcttgtgtac 2100
                                                                      2115
159 acctgcaage actag
161 <210> SEQ ID NO: 5
162 <211> LENGTH: 1086
163 <212> TYPE: DNA
164 <213> ORGANISM: Homo sapiens
```

RAW SEQUENCE LISTING DATE: 10/01/2004
PATENT APPLICATION: US/10/687,268 TIME: 12:03:49

Input Set : A:\SEQLIST1.txt

```
166 <400> SEOUENCE: 5
167 atgaageece tgaggaggee cettecette atttgeecet caccaccate eccaaqqete 60
168 acctgtetee etectetege tetetetage etgaceggge gggaagteet gacgecette 120
169 ccaggattgg gcactgcggc agccccggca cagggcgggg cccacctgaa gcaqtqtqac 180
170 etgetgaage tgteeeggeg geagaageag etetgeegga gggageeegg eetggetgag 240
171 accctgaggg atgctgcgca cctcggcctg cttgagtgcc agtttcagtt ccggcatgag 300
172 cgctggaact gtagcctgga gggcaggatg ggcctgctca agagaggctt caaagagaca 360
173 gettteetgt aegeggtgte etetgeegee eteacecaca eeetggeeeg qqeetqeage 420
174 gctgggcgca tggagcgctg cacctgtgat gactctccgg ggctggagag ccggcaggcc 480
175 tggcagtggg gcgtgtgcgg tgacaacctc aagtacagca ccaagtttct gagcaacttc 540
176 ctggggtcca agagaggaaa caaggacctg cgggcacggg cagacgccca caatacccac 600
177 gtgggcatca aggctgtgaa gagtggcctc aggaccacgt gtaagtgcca tggcgtatca 660
178 ggctcctgtg ccgtgcgcac ctgctggaag cagctctccc cgttccgtga gacgggccag 720
179 gtgctgaaac tgcgctatga ctcggctgtc aaggtgtcca gtgccaccaa tgaggccttg 780
180 ggccgcctag agctgtgggc ccctgccagg cagggcagcc tcaccaaagg cctggcccca 840
181 aggtetgggg acetggtgta catggaggae teacecaget tetgeeggee cageaagtae 900
182 tcacctggca cagcaggtag ggtgtgctcc cgggaggcca gctgcagcag cctgtgctgc 960
183 gggcggggct atgacaccca gagccgcctg gtggccttct cctgccactg ccaggtgcag 1020
184 tggtgctgct acgtggagtg ccagcaatgt gtgcaggagg agcttgtgta cacctgcaag 1080
185 cactag
187 <210> SEQ ID NO: 6
188 <211> LENGTH: 1098
189 <212> TYPE: DNA
190 <213> ORGANISM: Homo sapiens
192 <400> SEQUENCE: 6
193 atgtggctgc ttttaacaac aacttgtttg atctgtggaa ctttaaatgc tggtggattc 60
194 cttgatttgg aaaatgaagt gaatcctgag gtgtggatga atactagtga aatcatcatc 120
195 tacaatggct accccagtga agagtatgaa gtcaccactg aagatgggta tatactcctt 180
196 gtcaacagaa ttccttatgg gcgaacacat gctaggagca cagcagatgc aggttatgat 240
197 gtatggatgg gaaacagtcg gggaaacact tggtcaagaa gacacaaaac actctcagag 300
198 acagatgaga aattotgggo otttagtttt gatgaaatgg ocaaatatga totoccagga 360
199 gtaatagact tcattgtaaa taaaactggt caggagaaat tgtatttcat tggacattca 420
200 cttggcacta caatagggtt tgtagccttt tccaccatgc ctqaactgqc acaaaqaatc 480
201 aaaatgaatt ttgccttggg tcctacgatc tcattcaaat atcccacggg catttttacc 540
202 aggttttttc tacttccaaa ttccataatc aaggctgttt ttggtaccaa aggtttcttt 600
203 ttagaagata agaaaacgaa gatagcttct accaaaatct gcaacaataa gatactctgg 660'
204 ttgatatgta gcgaatttat gtccttatgg gctggatcca acaagaaaaa tatgaatcag 720
205 agtcgaatgg atgtgtatat gtcacatgct cccactggtt catcagtaca caacattctg 780
206 catataaaac agetttaeca etetgatgaa tteagagett atgaetgggg aaatgaeget 840
207 gataatatga aacattacaa tcagagtcat ccccctatat atgacctgac tgccatgaaa 900
208 gtgcctactg ctatttgggc tggtggacat gatgtcctcg taacacccca ggatgtggcc 960
209 aggatactee etcaaateaa gagtetteat taetttaage tattgecaga ttggaaceae 1020
210 tttgattttg tctggggcct cgatgcccct caacggatgt acagtgaaat catagcttta 1080
211 atgaaggcat attcctaa
                                                                       1098
213 <210> SEQ ID NO: 7
214 <211> LENGTH: 1194
215 <212> TYPE: DNA
216 <213 > ORGANISM: Homo sapiens
218 <400> SEQUENCE: 7
```

RAW SEQUENCE LISTING DATE: 10/01/2004 PATENT APPLICATION: US/10/687,268 TIME: 12:03:49

Input Set : A:\SEQLIST1.txt

```
219 atgtggcagc ttttagcagc agcatgctgg atgcttcttc ttggatctat gtatggttat 60
220 gacaagaaag gaaacaatgc aaaccctgaa gctaatatga atattagcca gattatttct 120
221 tactggggtt atccttatga agagtatgat gttacaacaa aagatggtta tatccttgga 180
222 atttatagga ttccacatgg aagaggatgc ccagggagga cagetccaaa geetgetgtg 240
223 tatttgcage atggettaat tgcatetgee agtaactgga tttgcaacet geccaacaac 300
224 agtttggctt tccttctggc agatagtggt tatgacgtgt ggttggggaa cagccgagga 360
225 aacacttggt ccagaaaaca ccttaaattg tcaccgaaat caccggaata ctgggccttc 420
226 agtttggatg agatggctaa atatgacctt ccagccacaa tcaattttat catagagaaa 480
227 actggacaga agcgactcta ctacgtgggc cactcacaag gcaccaccat agcttttata 540
228 gcattttcta caaacccaga actggctaaa aagattaaga tattttttgc actggctcca 600
229 gttgtcacag ttaaatacac ccaaagtcct atgaaaaaac taacaaccct ttccaggcga 660
230 gtagttaagg tgttgtttgg tgacaaaatg ttccaccctc atacattgtt tgaccaattc 720
231 attgccacca aagtgtgcaa tcgaaagcta ttccgtcgta tttgcagcaa cttcctattt 780
232 actictqaqtq qatttqatcc qcaaaactta aatatgagtc gcttggatgt ttatttgtca 840
233 cacaatcctg cgggaacatc tgttcagaat atgctgcact gggctcagct ttaccactct 900
234 gatgaattca gagcttatga ctggggaaat gacgctgata atatgaaaca ttacaatcag 960
235 aqtcatcccc ctatatatga cctgactgcc atgaaagtgc ctactgctat ttgggctggt 1020
236 ggacatgatg teetegtaac acceeaggat gtggecagga tacteeetca aatcaagagt 1080
237 cttcattact ttaagctatt gccagattgg aaccactttg attttgtctg gggcctcgat 1140
238 gcccctcaac ggatgtacag tgaaatcata gctttaatga aggcatattc ctaa
240 <210> SEQ ID NO: 8.
241 <211> LENGTH: 11118
242 <212> TYPE: DNA
243 <213> ORGANISM: Homo sapiens
245 <400> SEQUENCE: 8
246 atggcgaagc ggctctgcgc ggggagcgca ctgtgtgttc gcggcccccg gggccccgcg 60
248 ggcggcttca gcctgcaccc gcctacttc aacctggccg agggcgcccg catcgccgcc 180
249 tccgcgacct gcggagagga ggccccggcg cgcggctccc cgcgccccac cgaggacctt 240
250 tactgcaagc tggtaggggg ccccgtggcc ggcggcgacc ccaaccagac catccggggc 300
251 cagtactgtg acatctgcac ggctgccaac agcaacaagg cacaccccgc gagcaatgcc 360
252 atcgatggca cggagcgctg gtggcagagt ccaccgctgt cccgcggcct ggagtacaac 420
253 gaggtcaacg tcaccctgga cctgggccag gtcttccacg tggcctacgt cctcatcaag 480
254 tttgccaact cacceggee ggaeetetgg gtgetggage ggteeatgga etteggeege 540
255 acctaccage cetggeagtt etttgeetee tecaagaggg actgtetgga geggtteggg 600
256 ccacagacge tggagegeat cacaegggae gaegeggeea tetgeaceae egagtaetea 660
257 cgcatcgtgc ccctggagaa cggagagatc gtggtgtccc tggtgaacgg acgtccgggc 720
258 gccatgaatt teteetaete geegetgeta egtgagttea ceaaggeeae caaegteege 780
259 ctgcgcttcc tgcgtaccaa cacgctgctg ggccatctca tggggaaggc gctgcgggac 840
260 cccacggtca cccgccggta ttattacagc atcaaggata tcagcatcgg aggccgctgt 900
261 gtctgccacg gccacgcgga tgcctgcgat gccaaagacc ccacggaccc gttcaggctg 960
262 caqtqcacct qccaqcacaa cacctgcggg ggcacctgcg accgctgctg ccccggcttc 1020
263 aatcagcagc cgtggaagcc tgcgactgcc aacagtgcca acgagtgcca gtcctgtaac 1080
264 tgctacggcc atgccaccga ctgttactac gaccctgagg tggaccggcg ccgcgccagc 1140
265 cagageetgg atggeaceta teagggtggg ggtgtetgta tegaetgeea geaceaeaec 1200
266 accepentea acteteages etgeetgeec ggettetace geteteceaa ceaecetete 1260
267 gactcgcccc acgtctgccg ccgctgcaac tgcgagtccg acttcacgga tggcacctgc 1320
268 gaggacctga cgggtcgatg ctactgccgg cccaacttct ctggggagcg gtgtgacgtg 1380
269 tgtgccgagg gettcacggg ettcccaage tgctacccga egecetegte etccaatgae 1440
```

VERIFICATION SUMMARY

DATE: 10/01/2004 TIME: 12:03:50

PATENT APPLICATION: US/10/687,268

Input Set : A:\SEQLIST1.txt